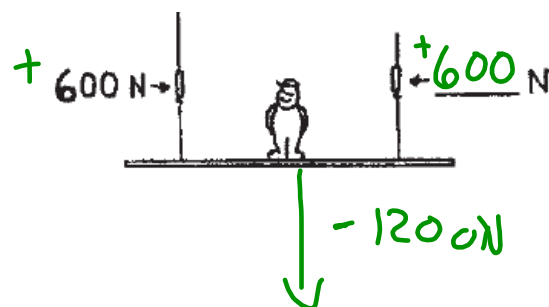
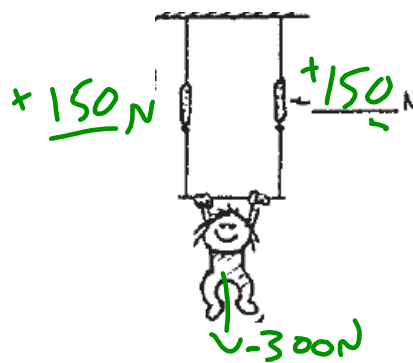
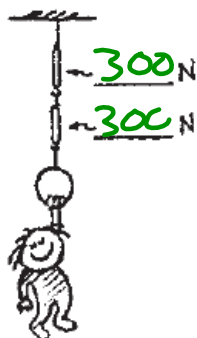


- \* SWBAT differentiate between static and dynamic equilibrium
- \* SWBAT apply the equilibrium rule.

Sep 6-2:31 PM

CP:

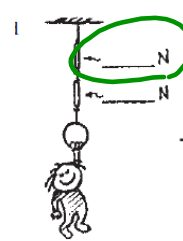
- Notes back
- Homework -- oops!
- Daily 3 for Wed...



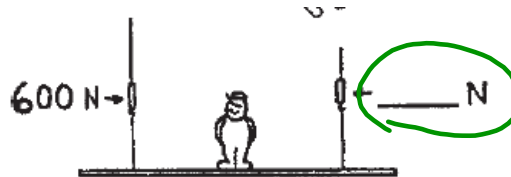
Sep 19-7:50 AM

1. The Equilibrium Rule says that in equilibrium the sum of the forces equals \_\_\_\_\_.

2. Nellie weighs 300N. What is the reading on the top scale?



3. Burl is standing in the exact middle of the board. What is the reading on the other scale?



Sep 14-7:28 AM

EQUILIBRIUM RULE! SUM OF FORCES = 0

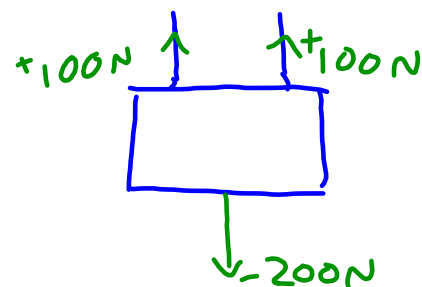
SECA Physics  
Friday 19 September 2013

Welcome!!!

Centering...

H. Leslie Grebe

- \* Pick up:
  - small slip of paper (for later)
  - instruction sheet



### Opening Activity:

Imagine that a framed picture of Liam (the English teacher) in an embarrassing position is hanging centered evenly by 2 hooks from the ceiling of the front hallway. **The picture weighs 200N.**

What is the upward force in each string?

Sep 7-7:04 AM

# EQUILIBRIUM $\Rightarrow$ BALANCED OR STEADY

## Big Idea of the Day:

Kinds of Equilibrium???

You are in the car in the middle of nowhere on a long smooth straight open road. The cruise control is set at 65 mph.

Are you in equilibrium? **YES**

You have a book flat on your lap. Could you balance a deck of cards on end on the book while the car was moving? **YES**

Sep 21-2:13 PM

## Dynamic Equilibrium

$\rightarrow$  MOVING



## Static Equilibrium

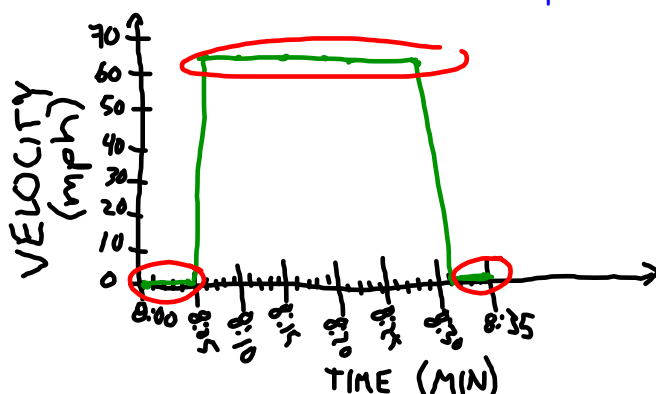
$\rightarrow$  STILL

An object can have all of its forces balanced (positives and negatives add to zero) and be **MOVING!**

If:

- it's not speeding up / slowing down
- it's not turning

Car with cruise control at 65 mph



When could you keep the cards balanced?

- ANY TIME THE VELOCITY STAYS THE SAME
- FLAT ON GRAPH

Sep 21-2:37 PM

Let's try it out on the computer!

OAS: NBT

Catchy Physics Phrases

Sep 16-2:23 PM

### Daily 3 Questions

- \* Every day except test/project days
- \* 3 Questions on the topics of the day
- \* Main source of daily points
- \* I am happy to give credit when I have no concerns about someone giving or getting help with the answers.

Your can't get your points if you don't have your **NAME!!!**

Name	Period
1.	
2.	
3.	

Sep 9-7:32 AM

1. If a picture weighing 200 N is hanging evenly from two hooks, what is the upward force in each string?

100N

↑ ↑ 100N

↓ 200

2. True or False: Something can be in equilibrium (positive and negative forces cancel out to zero) while it is moving. **DYNAMIC EQUILIBRIUM.**

3. Have you been checked off for your lab steps?

YES!

Sep 14-7:28 AM

Sep 18-7:51 AM